and

92. (new) A method for etching an oxide layer of a substrate, comprising: placing a substrate having an oxide layer formed over said substrate into a reactive chamber;

introducing an etching gas into said chamber;

generating a plasma of said etching gas at a first power level and contacting said oxide layer of said substrate with said first power level plasma for a first predetermined time;

generating a plasma of said etching gas at a second power level in said chamber and contacting said oxide layer of said substrate with said second power level plasma for a second predetermined time to etch said oxide layer, wherein said first and second power levels are different.

- 93. (new) The method according to claim 92, wherein said first power level is from about 100 Watts to about 250 Watts.
- 94. (new) The method according to claim 92, wherein said first power level is about 150 Watts.
- 95. (new) The method according to claim 92, wherein said first predetermined time is from about 3 seconds to about 10 seconds.
- 96. (new) The method according to claim 92, wherein said first predetermined time is about 5 seconds.
- 97. (new) The method according to claim 92, wherein said second power level is from about 800 Watts to about 1100 Watts.
- 98. (new) The method according to claim 92, wherein said second power level is about 950 Watts.

- 99. (new) The method according to claim 92, wherein said second predetermined time is from about 30 seconds to about 260 seconds.
- 100. (new) The method according to claim 92, wherein said second predetermined time is about 60 seconds.
- 101. (new) The method according to claim 92, wherein said etching gas for said first power level plasma and said second power level plasma is selected from the group consisting of Cl₂, HBr, CF₄, CHF₃, CH₂F₂ and inert gases.
- 102. (new) The method according to claim 101, wherein said first power level plasma is formed of CF₄, CHF₃ and an inert gas.
- 103. (new) The method according to claim 101, wherein said second power level plasma is formed of CF₄, CHF₃ and an inert gas.
- 104. (new) The method according to claim 101, wherein said first power level and said second power level plasmas are formed of CF₄, CHF₃ and Ar.
- 105. (new) The method according to claim 101, wherein said first power level and said second power level plasmas are formed of CF₄, CHF₃ and He.
- 106. (new) The method according to claim 92, wherein said substrate is a silicon-based substrate.
- 107. (new) The method according to claim 92, wherein said substrate is a germanium substrate.

108. (new) The method according to claim 92, wherein said substrate is a gallium arsenide substrate.